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Senecipyrrolidine, an unusual pyrrolidine alkaloid isolated from Jacobaea gigantea (Desf.) Pelser (Asteraceae)

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Titre	Senecipyrrolidine, an unusual pyrrolidine alkaloid isolated from Jacobaea gigantea (Desf.) Pelser (Asteraceae)
Type de publication	Article de revue
Auteur	Mezache, Nadjet [1], Derbré, Séverine [2], Laouer, Hocine [3], Richomme, Pascal [4], Seraphin, Denis [5], Akkal, Salah [6]
Editeur	Taylor & Francis
Type	Article scientifique dans une revue à comité de lecture
Année	2018
Langue	Anglais
Date	30 Oct. 2018
Pagination	In press
Titre de la revue	Natural Products Research
ISSN	1478-6419
Mots-clés	centrifugal partition chromatography [7], Flavonoids [8], Jacobaea [9], phenolic acids [10], pyrrolidine alkaloids [11], quinones [12], Senecio [13]
Résumé en anglais	Alkaloids and phenolic compounds are among the most biologically active natural products from the Jacobaea/Senecio genera (Asteraceae). To isolate original natural products directly from Jacobaea gigantea crude polar extracts, centrifugal partition chromatography (CPC) was used. Previously, we reported the phytochemical study of J. gigantea (syn. Senecio giganteus) n-butanol extract using various classical chromatographical techniques combined with CPC. Herein major constituents from the J. gigantea crude ethyl acetate extract and further compounds from the n-butanol extract were purified in only one step using this technique. A new pyrrolidine alkaloid, named senecipyrrolidine was isolated along with thirteen known compounds – chiro-inositol, three phenolic acids, six flavonoids, two quinones and emiline, another pyrrolidine alkaloid – from crude n-butanol or ethyl acetate extracts. Pyrrolidine alkaloids were isolated for the first time in the Jacobaea/Senecio genera and were probably biogenetically related to the two isolated quinones derivatives jacaranone and 3a-hydroxy-3,3a,7,7a-tetrahydrobenzofuran-2,6-dione, isolated in this species.
URL de la notice	http://okina.univ-angers.fr/publications/ua18656 [14]
DOI	10.1080/14786419.2018.1493584 [15]
Lien vers le document	https://www.tandfonline.com/doi/abs/10.1080/14786419.2018.1493584?journa... [16]

Liens

[1] http://okina.univ-angers.fr/publications?f%5Bauthor%5D=19767

[2] http://okina.univ-angers.fr/severine.derbre/publications

[3] http://okina.univ-angers.fr/publications?f%5Bauthor%5D=19392
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[15] http://dx.doi.org/10.1080/14786419.2018.1493584
[16] https://www.tandfonline.com/doi/abs/10.1080/14786419.2018.1493584?journalCode=gnpl20

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